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10/032442

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### 1 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(4.21 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on proc time diagrams are often used to obtain a better understanding of the execution of the application visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

### 2 [Query evaluation techniques for large databases](#)

Goetz Graefe

June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Full text available: pdf(9.37 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query processing ...

**Keywords:** complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

### 3 [Computing curricula 2001](#)

September 2001 **Journal on Educational Resources in Computing (JERIC)**

Full text available: pdf(613.63 KB) html(2.78 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

10/035 M42

4 Data base directions: the next steps

John L. Berg

November 1976 , Volume 8 , 8 Issue 4 , 2

Full text available:  pdf(9.95 MB)

Additional Information: [full citation](#), [abstract](#)


What information about data base technology does a manager need to make prudent decisions at using this new technology? To provide this information the National Bureau of Standards and the Association for Computing Machinery established a workshop of approximately 80 experts in five major subject areas. The five subject areas were auditing, evolving technology, government regulations, standards, and user experience. Each area prepared a report contained in these proceedings. The proceedings p ...

**Keywords:** DBMS, auditing, cost/benefit analysis, data base, data base management, government regulation, management objectives, privacy, security, standards, technology assessment, user experience

5 Extracting usability information from user interface events

David M. Hilbert, David F. Redmiles

December 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 4

Full text available:  pdf(1.50 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Modern window-based user interface systems generate user interface events as natural products their normal operation. Because such events can be automatically captured and because they ind user behavior with respect to an application's user interface, they have long been regarded as a potentially fruitful source of information regarding application usage and usability. However, beca user interface events are typically voluminos and rich in detail, automated support is generally ...

**Keywords:** human-computer interaction, sequential data analysis, usability testing, user interfac event monitoring

6 Full Papers: New paradigms in problem solving environments for scientific computing

George Chin, L. Ruby Leung, Karen Schuchardt, Debbie Gracio

January 2002 **Proceedings of the 7th international conference on Intelligent user interfaces**

Full text available:  pdf(947.61 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Computer and computational scientists at Pacific Northwest National Laboratory (PNNL) are study and designing collaborative problem solving environments (CPSEs) for scientific computing in vari domains. Where most scientific computing efforts focus at the level of the scientific codes, file systems, data archives, and networked computers, our analysis and design efforts are aimed at developing enabling technologies that are directly meaningful and relevant to domain scientist at level ...

**Keywords:** collaborative problem solving environment (CPSE), computational science, participat analysis, scientific computing, scientific workflow, visual programming

7 A distributed database architecture for global roaming in next-generation mobile networks

Zuji Mao, Christos Douligeris

February 2004 **IEEE/ACM Transactions on Networking (TON)**, Volume 12 Issue 1

Full text available:  pdf(427.81 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The next-generation mobile network will support terminal mobility, personal mobility, and service provider portability, making global roaming seamless. A location-independent personal

telecommunication number (PTN) scheme is conducive to implementing such a global mobile system. However, the nongeographic PTNs coupled with the anticipated large number of mobile users in future mobile networks may introduce very large centralized databases. This necessitates research into the design and performance ...

**Keywords:** database architecture, location management, location tracking, mobile networks

8 Query Optimization in Database Systems

Matthias Jarke, Jurgen Koch

June 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 2

Full text available:  [pdf\(2.84 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

9 Cactis: a self-adaptive, concurrent implementation of an object-oriented database management system

Scott E. Hudson, Roger King

September 1989 **ACM Transactions on Database Systems (TODS)**, Volume 14 Issue 3

Full text available:  [pdf\(2.65 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Cactis is an object-oriented, multiuser DBMS developed at the University of Colorado. The system supports functionally-defined data and uses techniques based on attributed graphs to optimize the maintenance of functionally-defined data. The implementation is self-adaptive in that the physical organization and the update algorithms dynamically change in order to reduce disk access. The system is also concurrent. At any given time there are some number of computations that must be performed ...

10 A model of multimedia information retrieval

Carlo Meghini, Fabrizio Sebastiani, Umberto Straccia

September 2001 **Journal of the ACM (JACM)**, Volume 48 Issue 5

Full text available:  [pdf\(5.69 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Research on multimedia information retrieval (MIR) has recently witnessed a booming interest. A prominent feature of this research trend is its simultaneous but independent materialization within several fields of computer science. The resulting richness of paradigms, methods and systems may, in the long run, result in a fragmentation of efforts and slow down progress. The primary goal of this study is to promote an integration of methods and techniques for MIR by contributing a conceptual model ...

**Keywords:** Description logics, fuzzy logics, multimedia information retrieval

11 Cost-driven vertical class partitioning for methods in object oriented databases

Chi-Wai Fung, Kamalakara Karlapalem, Qing Li

October 2003 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 12 Issue 3

Full text available:  [pdf\(334.54 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

**Abstract.** In object-oriented databases (OODBs), a method encapsulated in a class typically accesses few, but not all the instance variables defined in the class. It may thus be preferable to vertically partition the class for reducing irrelevant data (instance variables) accessed by the methods. Our work has shown that vertical class partitioning can result in a substantial decrease in the total number of disk accesses incurred for executing a set of applications, but coming up with an optimal ...

**Keywords:** Affinity-based, Analytical cost model, Cost-driven, Hill-climbing heuristic algorithm, Method-induced, Object-oriented databases, Vertical class partitioning

**12 Security-control methods for statistical databases: a comparative study**

Nabil R. Adam, John C. Worthmann

December 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 4

Full text available:  [pdf\(3.64 MB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This paper considers the problem of providing security to statistical databases against disclosure of confidential information. Security-control methods suggested in the literature are classified into four general approaches: conceptual, query restriction, data perturbation, and output perturbation. Criteria for evaluating the performance of the various security-control methods are identified. Security-control methods that are based on each of the four approaches are discussed, then ...

**13 User interfaces: DIAL: a programming language for data intensive applications**

Michael Hammer, Brian Berkowitz

May 1980 **Proceedings of the 1980 ACM SIGMOD international conference on Management data**

Full text available:  [pdf\(1.92 MB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

DIAL is a problem-oriented and high-level programming language oriented towards database applications. It integrates into a unified framework database primitives and computational facilities that an application programmer will deal with a single coherent language. The design of DIAL is based on the premise that in order to have a meaningful impact on the construction of application software a database programming language should eschew generality and focus on what is unique about the application ...

**14 Special issue on prototypes of deductive database systems: The Aditi deductive database system**

Jayen Vaghani, Kotagiri Ramamohanarao, David B. Kemp, Zoltan Somogyi, Peter J. Stuckey, Tim S. Leask, James Harland

April 1994 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 1 Issue 2

Full text available:  [pdf\(2.67 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Deductive databases generalize relational databases by providing support for recursive views and atomic data. Aditi is a deductive system based on the client-server model; it is inherently multi-user and capable of exploiting parallelism on shared-memory multiprocessors. The back-end uses relational technology for efficiency in the management of disk-based data and uses optimization algorithms especially developed for the bottom-up evaluation of logical queries involving recursion. The front

**Keywords:** implementation, logic, multi-user, parallelism, relational database

**15 Special issue on word sense disambiguation: Introduction to the special issue on word sense disambiguation: the state of the art**

Nancy Ide, Jean Véronis

March 1998 **Computational Linguistics**, Volume 24 Issue 1

Full text available:  [pdf\(3.44 MB\)](#)  [Publisher Site](#)

Additional Information: [full citation](#), [references](#), [citations](#)

**16 An analysis of XML database solutions for the management of MPEG-7 media descriptions**



Utz Westermann, Wolfgang Klas

December 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 4

Full text available:  pdf(448.76 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

MPEG-7 constitutes a promising standard for the description of multimedia content. It can be expected that a lot of applications based on MPEG-7 media descriptions will be set up in the near future. Therefore, means for the adequate management of large amounts of MPEG-7-compliant media descriptions are certainly desirable. Essentially, MPEG-7 media descriptions are XML documents following media description schemes defined with a variant of XML Schema. Thus, it is reasonable to investigate current ...

**Keywords:** MPEG-7, XML database systems, multimedia databases

**17 Broadcast protocols to support efficient retrieval from databases by mobile users**

Anindya Datta, Debra E. VanderMeer, Aslihan Celik, Vijay Kumar

March 1999 **ACM Transactions on Database Systems (TODS)**, Volume 24 Issue 1

Full text available:  pdf(638.48 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Mobile computing has the potential for managing information globally. Data management issues in mobile computing have received some attention in recent times, and the design of adaptive broadcast protocols has been posed as an important problem. Such protocols are employed by database systems to decide on the content of broadcasts dynamically, in response to client mobility and demand patterns. In this paper we design such protocols and also propose efficient retrieval schemes ...

**Keywords:** adaptive broadcast protocols, client-server computing, energy conservation, mobile databases

**18 Mariposa: a wide-area distributed database system**

Michael Stonebraker, Paul M. Aoki, Witold Litwin, Avi Pfeffer, Adam Sah, Jeff Sidell, Carl Staelin, And Yu

January 1996 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 5 Issue 1

Full text available:  pdf(172.75 KB)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

The requirements of wide-area distributed database systems differ dramatically from those of local area network systems. In a wide-area network (WAN) configuration, individual sites usually report different system administrators, have different access and charging algorithms, install site-specific data type extensions, and have different constraints on servicing remote requests. Typical of the point are production transaction environments, which are fully engaged during normal business hours

**Keywords:** Autonomy, Databases, Distributed systems, Economic site, Name service, Wide-area network

**19 Quality of service in an information economy**

R. Braumandl, A. Kemper, D. Kossmann

November 2003 **ACM Transactions on Internet Technology (TOIT)**, Volume 3 Issue 4

Full text available:  pdf(829.15 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Accessing and processing distributed data sources have become important factors for businesses today. This is especially true for the emerging virtual enterprises with their data and processing capabilities spread across the Internet. Unfortunately, however, query processing on the Internet is not predictable and robust enough to meet the requirements of many business applications. For instance, the response time of a query can be unexpectedly high; or the monetary cost might be


high if the ...

**Keywords:** Quality of Service

**20** Query optimization in a memory-resident domain relational calculus database system

Kyu-Young Whang, Ravi Krishnamurthy

March 1990 **ACM Transactions on Database Systems (TODS)**, Volume 15 Issue 1

Full text available:  pdf(2.46 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present techniques for optimizing queries in memory-resident database systems. Optimization techniques in memory-resident database systems differ significantly from those in conventional d resident database systems. In this paper we address the following aspects of query optimization i such systems and present specific solutions for them: (1) a new approach to developing a CPU-intensive cost model; (2) new optimization strategies for main-memory query processing; (3) new insight into ...

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IEEE JNL IEEE Journal or Magazine

IEEE JNL IEEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEEE CNF IEEE Conference Proceeding

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## 1. Efficient planar object tracking and parameter estimation using compactly represented spline curves

Yu-Hua Gu; Tjahjedi, T.;  
Systems, Man and Cybernetics, Part A, IEEE Transactions on  
Volume 29, Issue 4, July 1999 Page(s):358 - 367[AbstractPlus](#) | [References](#) | Full Text: [PDF\(272 KB\)](#) IEEE JNL2. Performance evaluation of location information distribution strategies for mobility  
Mao, Z.; Douligeris, C.;  
Parallel and Distributed Systems, 2000. Proceedings. Seventh International Conference  
4-7 July 2000 Page(s):429 - 436[AbstractPlus](#) | Full Text: [PDF\(628 KB\)](#) IEEE CNF

## 3. Location prediction and queries for tracking moving objects

Wolfson, O.; Xu, B.; Chamberlain, S.;  
Data Engineering, 2000. Proceedings. 16th International Conference on  
29 Feb.-3 March 2000 Page(s):687 - 688[AbstractPlus](#) | Full Text: [PDF\(28 KB\)](#) IEEE CNFIndexed by  
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